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1. Document ID: US 6788315 B1

L1: Entry 1 of 22

File: USPT

Sep 7, 2004

US-PAT-NO: 6788315

DOCUMENT-IDENTIFIER: US 6788315 B1

TITLE: Platform independent computer network manager

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kekic; Miodrag M.	Mountain View	CA		
Lu; Grace N.	Milpitas	CA		
Carlton; Eloise H.	San Carlos	CA		

US-CL-CURRENT: 715/733; 709/203, 709/223, 715/736, 715/744, 715/764, 715/835

ABSTRACT:

A client-server network management system includes: a plurality of managed computer network elements, a managed element server that executes on a first computer; and at least one managed element server client that typically executes on a second computer. The managed element server and managed element server client are computer processes that execute from memory of their respective computers. The client-server network management system is really two applications in one: a visual element manager builder and a manager. The manager provides the run-time environment in which element managers are executed to monitor and manage computer network behavior such as network throughput, collision rate, and number of duplicate IP packets, to name a few. The manager portion of managed element server is independent of any graphic user interface. The logic and structure of the manager of managed element server is cleanly separated from the graphic user interfaces. The visual element manager builder is a visual development environment in which device vendors or network managers may create standardized element management applications, called element managers. A user can build an element manager without writing any computer code. In addition, a user can edit an element manager without writing any computer code. A graphic user interface of this invention, that is displayed by the client, includes a visual image of a computer network element being managed. As a user looks at the visual display in the graphic user interface, the user is provided the same visual information as if the user were physically present at the location of the managed computer network element. Thus, at a glance, a user can obtain considerable information about the status of the computer network element as represented by the visual display.

16 Claims, 75 Drawing figures

2. Document ID: US 6664978 B1

L1: Entry 2 of 22

File: USPT

Dec 16, 2003

US-PAT-NO: 6664978

DOCUMENT-IDENTIFIER: US 6664978 B1

TITLE: Client-server computer network management architecture

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kekic; Miodrag M.	Mountain View	CA		
Lu; Grace N.	Milpitas	CA		
Carlton; Eloise H.	San Carlos	CA		

US-CL-CURRENT: 715/733; 709/203, 709/223, 709/224, 715/740, 715/771, 715/835

ABSTRACT:

A client-server network management system includes: a plurality of managed computer network elements, a managed element server that executes on a first computer; and at least one managed element server client that typically executes on a second computer. The managed element server and managed element server client are computer processes that execute from memory of their respective computers. The client-server network management system is really two applications in one: a visual element manager builder and a manager. The manager provides the run-time environment in which element managers are executed to monitor and manage computer network behavior such as network throughput, collision rate, and number of duplicate IP packets, to name a few. The manager portion of managed element server is independent of any graphic user interface. The logic and structure of the manager of managed element server is cleanly separated from the graphic user interfaces. The visual element manager builder is a visual development environment in which device vendors or network managers may create standardized element management applications, called element managers. A user can build an element manager without writing any computer code. In addition, a user can edit an element manager without writing any computer code. A graphic user interface of this invention, that is displayed by the client, includes a visual image of a computer network element being managed. As a user looks at the visual display in the graphic user interface, the user is provided the same visual information as if the user were physically present at the location of the managed computer network element. Thus, at a glance, a user can obtain considerable information about the status of the computer network element as represented by the visual display.

26 Claims, 74 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 51

3. Document ID: US 6658418 B2

L1: Entry 3 of 22

File: USPT

Dec 2, 2003

US-PAT-NO: 6658418

DOCUMENT-IDENTIFIER: US 6658418 B2

TITLE: Authoring system for computer-based information delivery system

DATE-ISSUED: December 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burns; Kevin S.	Bellevue	WA		

US-CL-CURRENT: 707/10; 345/650, 345/676, 705/27, 707/100, 715/508, 715/760

ABSTRACT:

A multimedia kiosk authoring system for use in developing and maintaining user interface screens for multimedia kiosk systems. The authoring system enables the user interface for each individual kiosk to be customized quickly and easily within wide limits of variation, yet subject to constraints adhering the resulting interface to good standards of aesthetics and user friendliness. The system may be used to provide custom interfaces expeditiously even for hundreds of kiosks presenting information from numerous independent information sources. The authoring system uses the methods of object oriented programming to define specialized object classes for instantiation on individual kiosk interface screens subject to pre-defined limitations on variability. Links are provided to an appropriate database for multimedia presentations on an interface screen of content bearing information from the information providers.

86 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

4. Document ID: US 6606731 B1

L1: Entry 4 of 22

File: USPT

Aug 12, 2003

US-PAT-NO: 6606731

DOCUMENT-IDENTIFIER: US 6606731 B1

TITLE: Intelligent wiring diagram system

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baum; Lawrence S.	Bellevue	WA		
Boose; John H.	Bellevue	WA		
Boose; Molly L.	Bellevue	WA		
Post; Michael D.	Edmond	OK		

US-CL-CURRENT: 716/3; 716/4

ABSTRACT:

An intelligent wiring diagram system for automatically converting electronic wiring diagrams into intelligent wiring diagrams for display on a computer terminal, the intelligent wiring diagram system primarily for use as an interactive tool for trouble-shooting electrical problems.

9 Claims, 30 Drawing figures
Exemplary Claim Number: 2
Number of Drawing Sheets: 23

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5. Document ID: US 6570587 B1

L1: Entry 5 of 22

File: USPT

May 27, 2003

US-PAT-NO: 6570587
DOCUMENT-IDENTIFIER: US 6570587 B1

TITLE: System and method and linking information to a video

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Efrat; Eliahu	Tel-Aviv			IL
Peleg; Avner	Ramat-Hasharon			IL
Hermush; Yossi A.	Tel-Aviv			IL
Peleg; Ehud	Tel-Aviv			IL
Borenstein; Elhanan A.	Tel-Aviv			IL

US-CL-CURRENT: 715/723; 715/726, 715/853

ABSTRACT:

A system and method are provided for linking information to and accessing information from a video. A hotspot can be defined in a frame of a video. The hotspot can be tracked in other frames of the video. Also, the hotspot can be linked to a target. When the video is played, the hotspot can be actuated and the corresponding target executed.

65 Claims, 25 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

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6. Document ID: US 6557164 B1

L1: Entry 6 of 22

File: USPT

Apr 29, 2003

US-PAT-NO: 6557164

DOCUMENT-IDENTIFIER: US 6557164 B1

TITLE: System, method and article of manufacture for creating an object oriented component having multiple bidirectional ports for use in association with a java application or applet

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Faustini; Antony Azio	Palo Alto	CA		

US-CL-CURRENT: 717/107; 717/108, 717/116, 719/315

ABSTRACT:

Method, system and article of manufacture for creating an object oriented component having multiple bidirectional ports for use with an object oriented based applet or application. The component's ports are all first initialized to a predetermined value and thereafter polled to determine if an input has been coupled to any one of the ports. If it has not, polling continues. If an input is present, all of the component's remaining ports are set to output the same type and value as that of the input. Where appropriate, a check is made to determine if a saved state of the component exists, if it does, the component is initialized to the state type and value rather than the predetermined type and value. When the input is removed, the component ports are all reinitialized to the predetermined type and value and polling for a new input commences.

20 Claims, 33 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 33

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Claims](#) | [DOC](#) | [Draw](#)

7. Document ID: US 6496870 B1

L1: Entry 7 of 22

File: USPT

Dec 17, 2002

US-PAT-NO: 6496870

DOCUMENT-IDENTIFIER: US 6496870 B1

** See image for Certificate of Correction **

TITLE: System, method and article of manufacture for collaboration with an application

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Faustini; Antony Azio	Palo Alto	CA		

US-CL-CURRENT: 719/316; 717/107

ABSTRACT:

A system for collaborating components or objects in a visual development environment is detailed. Collaboration is effected by augmenting eligible components or objects with appropriate collaboration code and registering such components or objects with a server application designated for that purpose which resides on the same HTTP server where the applet that spawned the components to be collaborated also resides. The server application first registers objects or components or portions thereof to be collaborated, builds a record of such links and thereafter interacts with the collaborated components or designated portions thereof to publish, unpublish or update those components and objects, or portions thereof, in accordance with the application server record.

26 Claims, 33 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 32

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8. Document ID: US 6476833 B1

L1: Entry 8 of 22

File: USPT

Nov 5, 2002

US-PAT-NO: 6476833

DOCUMENT-IDENTIFIER: US 6476833 B1

TITLE: Method and apparatus for controlling browser functionality in the context of an application

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moshfeghi; Mehran	Sunnyvale	CA		

US-CL-CURRENT: 715/854; 715/762

ABSTRACT:

This invention includes methods and apparatus for browsing markup language

documents from within the context of a client-server application running on an end-user device. Browser functionality, which is configured according to user profile information specifying each user's authorization and preferences, is embedded in the application, and can be activated by application controls. While some users have unrestricted authorization and access, others are restricted to certain browser functions and to certain allowed network resources. This restriction is enforced by preventing the browser functionality from generating network addresses that are not on a list of allowed network addresses also present in the user profile information. Network access restriction is achieved, in part, by filtering markup language documents before display to delete linking information that is not allowed. Document filtering methods are presented for Hypertext Markup Language (HTML) and extensible Markup Language (XML) documents. The document filtering methods are extendable to additional markup languages.

28 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

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9. Document ID: US 6445398 B1

L1: Entry 9 of 22

File: USPT

Sep 3, 2002

US-PAT-NO: 6445398

DOCUMENT-IDENTIFIER: US 6445398 B1

TITLE: Method and system for providing user interface for electronic program guide

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerba; George	Venice	CA		
Joy; Margeigh	San Francisco	CA		
Lambert; Robert	Glendale	CA		
Nichols; Michael	Altadena	CA		
Takahashi; Drew	San Mateo	CA		

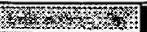
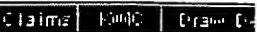
US-CL-CURRENT: 715/721; 715/823

ABSTRACT:

A method and system of providing a user interface for presenting television programming schedule data on a display. The schedule data is organized in a data plane comprising data cells identifying the items of schedule data, such as the titles of the television programs. The method involves presenting a highlight cell or cursor at a fixed position on the display such that a first data cell is at a concurrent position with the highlight cell, and allowing the data plane to scroll on the display in at least one direction such that all or part of the first data cell moves out of concurrent position with the highlight cell and a second data cell or part thereof moves into concurrent position with the highlight cell. This fixed position highlight cell thus remains stationary while the data plane or

electronic program guide scrid moves, making it easier for viewers to peruse the selections in the data plane without moving their eyes substantially. The highlight cell is preferably in a substantially central location on the display.

26 Claims, 74 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 57

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10. Document ID: US 6438615 B1

L1: Entry 10 of 22

File: USPT

Aug 20, 2002

US-PAT-NO: 6438615

DOCUMENT-IDENTIFIER: US 6438615 B1

**** See image for Certificate of Correction ****

TITLE: System, method and article of manufacture for using multiple bidirectional ports in association with a java application or applet

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Faustini; Antony Azio	Palo Alto	CA		

US-CL-CURRENT: 719/315

ABSTRACT:

Method, system and article of manufacture for creating object oriented components having one or more bidirectional ports for use with in connecting object oriented based components. The two way or bidirectional ports are first initialized to their two way state. The ports can then dynamically function as either input or output ports based solely on the manner in which they are used. The components set themselves internally to reflect the actual status of their bi-directional ports. When a connection to another component is completed, the connecting component object sends a message to the component at the other end of the connection indicating how its own port is set, input or output. The message receiving component then makes sure that its connection participating port is set oppositely. If the message receiving component's connecting port is bidirectional, that port is set opposite to the status of the first connected port. If the message receiving component's port is unidirectional and as such is in conflict with the status of the first connected port, that is, it is set to "output" when the first connected port is also set to "output", the connection is prohibited and an appropriate error message is displayed.

30 Claims, 33 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 33

11. Document ID: US 6311211 B1

L1: Entry 11 of 22

File: USPT

Oct 30, 2001

US-PAT-NO: 6311211

DOCUMENT-IDENTIFIER: US 6311211 B1

TITLE: Method and apparatus for delivering electronic advocacy messages

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shaw; David E.	New York	NY		
Stone; Roger A.	Bethesda	MD		
Sasson; David M.	New York	NY		
Ardaï; Charles E.	New York	NY		
Mani; V. S.	Long Island City	NY		
Saraiya; Yatin	Summit	NJ		

US-CL-CURRENT: 709/206

ABSTRACT:

A method of operating an advocacy network is provided. One or more users are selected based on information in a user database containing, for example, demographic or psychographic information about users as well as information identifying a representative associated with each user, such as a home address. An advocacy message is sent to a user through a first communication network, such as by sending an advocacy message associated with an e-mail message. The advocacy message may include a portion that lets the user generate an indication, such as by clicking on a portion of a computer screen. When an indication is received, a response message is sent to the representative associated with the user. The response message includes information about the user, such as the user's name and home address, and may be sent at a pre-determined time along with response messages from other users. The response message may be an e-mail message, a facsimile message, a printed letter or a telephone call. The user can also provide answers to survey questions and/or grant permission to have his or her contact information provided to an advocacy party.

63 Claims, 18 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

12. Document ID: US 6278455 B1

L1: Entry 12 of 22

File: USPT

Aug 21, 2001

US-PAT-NO: 6278455
DOCUMENT-IDENTIFIER: US 6278455 B1

TITLE: Pictorial interface for accessing information in an electronic file system

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Michelle	New York	NY	10025	

US-CL-CURRENT: 715/716; 345/473

ABSTRACT:

A pictorial user interface for accessing information in an electronic file system provides a pictorial image which is linked to a file directory and which identifies the file directory. Objects in the pictorial image are icons linked to file objects and an animated character is overlaid on the pictorial image. User input causes movement of the animated character relative to the pictorial image. Input from the user is preferably through a limited input device such as a gamepad controller, a mouse, or by using a limited number of keys on a normal keyboard. Input signals are mapped according to keycode identical command sets, context arguments and selection arguments. Commands that can be invoked by the user include operating system commands, pictorial object commands, and interface utility commands. Using the pictorial object commands, the user can configure the interface so that different pictures and icons are associated with different directories and files. Commands are executed with a prologue animation and an epilogue animation. The prologue animation provides feedback as to the nature of the command being executed. The epilogue animation provides feedback as to the results of the command. Animations may include actions of the animated character or the behaviour of a selected icon, or both. The interface may be applied as an overlay to virtually any operating system.

11 Claims, 19 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

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13. Document ID: US 6272537 B1

L1: Entry 13 of 22

File: USPT

Aug 7, 2001

US-PAT-NO: 6272537
DOCUMENT-IDENTIFIER: US 6272537 B1

TITLE: Method for building element manager for a computer network element using a visual element manager builder process

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kekic; Miodrag M.	Mountain View	CA		
Lu; Grace N.	Milpitas	CA		
Carlton; Eloise H.	San Carlos	CA		

US-CL-CURRENT: 709/223; 709/203, 709/219, 719/329

ABSTRACT:

A client-server network management system includes: a plurality of managed computer network elements, a managed element server that executes on a first computer; and at least one managed element server client that typically executes on a second computer. The managed element server and managed element server client are computer processes that execute from memory of their respective computers. The client-server network management system is really two applications in one: a visual element manager builder and a manager. The manager provides the run-time environment in which element managers are executed to monitor and manage computer network behavior such as network throughput, collision rate, and number of duplicate IP packets, to name a few. The manager portion of managed element server is independent of any graphic user interface. The logic and structure of the manager of managed element server is cleanly separated from the graphic user interfaces. The visual element manager builder is a visual development environment in which device vendors or network managers may create standardized element management applications, called element managers. A user can build an element manager without writing any computer code. In addition, a user can edit an element manager without writing any computer code. A graphic user interface of this invention, that is displayed by the client, includes a visual image of a computer network element being managed. As a user looks at the visual display in the graphic user interface, the user is provided the same visual information as if the user were physically present at the location of the managed computer network element. Thus, at a glance, a user can obtain considerable information about the status of the computer network element as represented by the visual display.

26 Claims, 73 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examiner	Att	Claims	Draw	Doc
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14. Document ID: US 6253229 B1

L1: Entry 14 of 22

File: USPT

Jun 26, 2001

US-PAT-NO: 6253229

DOCUMENT-IDENTIFIER: US 6253229 B1

TITLE: Hotspots only interfaces to links in hypertext document pages in network display stations

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Nielsen; Christopher Robbins	Austin	TX
Poston; Rick Lee	Austin	TX
Stair; Stephen Gray	Austin	TX
Tsao; I-Hsing	Austin	TX

US-CL-CURRENT: 709/203; 709/217, 709/219

ABSTRACT:

A data processor controlled user interactive display system for displaying hypertext documents, each including a sequence of display screen pages received over a communications network such as the World Wide Web. Each of the pages contains a plurality of hotspots responsive to user interactive pointing means to display a linked document. The system provides display pages in alternate versions wherein only the hotspots on the page are displayed. It includes means for selecting said alternate version for display and means, responsive to said means for selecting, for transmitting said alternate version containing hotspots only to a receiving display station. The selection of the alternate version is made through a browser at the receiving display station and carried out by the network server which fetches said documents from said network and transmits said fetched documents to said receiving station and has said means for providing said display page in said alternate version having hotspots only and said means, responsive to said means for selecting, for transmitting said alternate version.

11 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

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15. Document ID: US 6044218 A

L1: Entry 15 of 22

File: USPT

Mar 28, 2000

US-PAT-NO: 6044218

DOCUMENT-IDENTIFIER: US 6044218 A

TITLE: System, method and article of manufacture for creating a live application or applet development environment

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Faustini; Antony Azio	Palo Alto	CA		

US-CL-CURRENT: 717/107; 717/109, 717/110, 719/315

ABSTRACT:

A system for a live applet or application development environment includes software that cooperatively promotes and permits immediate socialization of new components with existing components as the new components are instantiated or dropped onto the

development desktop. This is achieved by registering a new component being instantiated with the development environment's kernel. Registration, in turn, invokes an initialization method derived from the class template that yielded the new component. The initialization method appropriately personalizes the new component when it executes its associated logic. The initialization method provide an editor for the new component if its properties are to be made editable. The software environment, its kernel, templates, components, editor and methods are preferably programmed in the Java programming language or a Java compatible language.

18 Claims, 33 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 33

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16. Document ID: US 6002401 A

L1: Entry 16 of 22

File: USPT

Dec 14, 1999

US-PAT-NO: 6002401

DOCUMENT-IDENTIFIER: US 6002401 A

TITLE: User definable pictorial interface for accessing information in an electronic file system

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Michelle	New York	NY	10025	

US-CL-CURRENT: 715/839; 345/473, 715/706

ABSTRACT:

A pictorial user interface for accessing information in an electronic file system provides a pictorial image which is linked to a file directory and which identifies the file directory. Objects in the pictorial image are icons linked to file objects and an animated character is overlaid on the pictorial image. User input causes movement of the animated character relative to the pictorial image. Input from the user is preferably through a limited input device such as a gamepad controller, a mouse, or by using a limited number of keys on a normal keyboard. Input signals are mapped according to keycode identical command sets, context arguments and selection arguments. Commands that can be invoked by the user include operating system commands, pictorial object commands, and interface utility commands. Using the pictorial object commands, the user can configure the interface so that different pictures and icons are associated with different directories and files. Commands are executed with a prologue animation and an epilogue animation. The prologue animation provides feedback as to the nature of the command being executed. The epilogue animation provides feedback as to the results of the command. Animations may include actions of the animated character or the behavior of a selected icon, or both. The interface may be applied as an overlay to virtually any operating system.

15 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

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17. Document ID: US 5999179 A

L1: Entry 17 of 22

File: USPT

Dec 7, 1999

US-PAT-NO: 5999179

DOCUMENT-IDENTIFIER: US 5999179 A

TITLE: Platform independent computer network management client

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kekic; Miodrag M.	Mountain View	CA		
Lu; Grace N.	Milpitas	CA		
Carlton; Eloise H.	San Carlos	CA		

US-CL-CURRENT: 715/734; 715/969, 715/970

ABSTRACT:

A client-server network management system includes: a plurality of managed computer network elements, a managed element server that executes on a first computer; and at least one managed element server client that typically executes on a second computer. The managed element server and managed element server client are computer processes that execute from memory of their respective computers. The client-server network management system is really two applications in one: a visual element manager builder and a manager. The manager provides the run-time environment in which element managers are executed to monitor and manage computer network behavior such as network throughput, collision rate, and number of duplicate IP packets, to name a few. The manager portion of managed element server is independent of any graphic user interface. The logic and structure of the manager of managed element server is cleanly separated from the graphic user interfaces. The visual element manager builder is a visual development environment in which device vendors or network managers may create standardized element management applications, called element managers. A user can build an element manager without writing any computer code. In addition, a user can edit an element manager without writing any computer code. A graphic user interface of this invention, that is displayed by the client, includes a visual image of a computer network element being managed. As a user looks at the visual display in the graphic user interface, the user is provided the same visual information as if the user were physically present at the location of the managed computer network element. Thus, at a glance, a user can obtain considerable information about the status of the computer network element as represented by the visual display.

12 Claims, 73 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 57

18. Document ID: US 5918012 A

L1: Entry 18 of 22

File: USPT

Jun 29, 1999

US-PAT-NO: 5918012

DOCUMENT-IDENTIFIER: US 5918012 A

TITLE: Hyperlinking time-based data files

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Astiz; Paul	North Bethesda	MD		
Feit; Fil	Annandale	VA		

US-CL-CURRENT: 709/217; 709/203, 709/218, 715/744, 715/760

ABSTRACT:

A network data processing system is disclosed that uses novel methods and apparatus to hyperlink from full motion videos. The present invention can be used with any standard video file by adding a header identifying a video map location and a script location identifying where the hyperlinks are associated with the video file for any given frame. The present invention includes a new viewer that reads the header and issues the header information, X-coordinate, Y-coordinate, and time coordinate for a particular hyperlink selection made by a user via a computer pointing device. An HTTP Server and video script then operate in conjunction to obtain the corresponding map and identify a network address associated with the coordinate information provided by the viewer.

20 Claims, 9 Drawing figures

Exemplary Claim Number: 6

Number of Drawing Sheets: 8

19. Document ID: US 5890175 A

L1: Entry 19 of 22

File: USPT

Mar 30, 1999

US-PAT-NO: 5890175

DOCUMENT-IDENTIFIER: US 5890175 A

TITLE: Dynamic generation and display of catalogs

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Garland	San Diego	CA	92122	
Pipp; Randall	Carlsbad	CA	92008	
van Lydegraf; Eric	Cardiff	CA	92007	

US-CL-CURRENT: 715/505; 705/26**ABSTRACT:**

A computerized method for dynamically generating and displaying a catalog including a plurality of items, each item being classified by at least group information and product information is disclosed. The method allows a merchant user to generate a catalog by classifying new items by entering into pre-defined fields at least group and product information text for each item, and by optionally specifying a multimedia object associated with the new item, where each field optionally has an associated link to a linked object. The user selects a display template which defines a pre-designed catalog page layout having generally designated areas for placement of text and multimedia objects relating to an associated item. After the user inputs information regarding an item into the form fields, the field contents are associated with corresponding areas of the selected template. The field contents are then stored as a part of a page of the catalog. Upon receiving a request to display a page, the stored field contents are retrieved and checked as to whether the requested page includes any multimedia objects. If so, the logical framing for each area designated for placement of multimedia objects is adjusted to accommodate all of the multimedia objects. The retrieved field contents, including any associated links to linked objects, of the requested page are then combined with the display template to generate a display page, which is displayed to a consumer.

9 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	TOC	Dra...
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 20. Document ID: US 5819092 A

L1: Entry 20 of 22

File: USPT

Oct 6, 1998

US-PAT-NO: 5819092

DOCUMENT-IDENTIFIER: US 5819092 A

TITLE: Online service development tool with fee setting capabilities

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ferguson; Charles H.	Cambridge	MA		
Forgaard; Randy J.	Lexington	MA		

US-CL-CURRENT: 717/113; 705/39

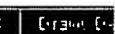
ABSTRACT:

A visual editing system for creating commercial online computer services. The visual editing system creates online services that consist of a number of subservices. Each subservice is a program that provides a particular type of functionality to the online service. Different subservices exist for displaying hypermedia documents, searching directories and databases, displaying classified advertisements, providing a bulletin board system, etc. Each subservice has an associated database of information and a collection of scripts that handle events such as input from a user. The visual editing system of the present invention features a fee setting tool that allows the developer to develop a fee structure for an online service. The fee structure can handle both fees levied against users and third party content providers. For example, users can be levied fees for logging onto an online service, performing searches, or downloading information. Third party content providers can be levied fees for submitting advertisements or for executing a transaction with a user. Similarly, the fee setting tool also allows the developer to assign a payment system whereby users or content providers can be paid for certain actions. A user may be paid when that user that fills out a marketing questionnaire or wins a contest. A third party content provider can be paid when that third party content provider supplies valuable information desired by the users of the online service.

44 Claims, 26 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 25

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)     [Claims](#) | [Docket](#) | [Search](#)

21. Document ID: US 5794257 A

L1: Entry 21 of 22

File: USPT

Aug 11, 1998

US-PAT-NO: 5794257

DOCUMENT-IDENTIFIER: US 5794257 A

TITLE: Automatic hyperlinking on multimedia by compiling link specifications

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Peiya	East Brunswick	NJ		
Hampel; Kenneth	Yardley	PA		
Hsu; Arding	Kendall Park	NJ		

US-CL-CURRENT: 715/501.1

ABSTRACT:

A link specification and an electronic manual is provided to an auto linker which in conjunction with a run-time media engine provides hyperlinked manuals. The auto linker comprises a link generator for generating links and a link verifier for checking and modifying the links that are generated. The run-time media engine comprises an event handler and a script interpreter and handles the user

interaction. Through the interaction of the hyperlinks from the auto linker with the run-time media engine the hyperlinked manuals are produced.

10 Claims, 5 Drawing figures
Exemplary Claim Number: 10
Number of Drawing Sheets: 4

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Backend](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Text](#) | [Claims](#) | [TOC](#) | [Drawings](#)

22. Document ID: US 5715416 A

L1: Entry 22 of 22

File: USPT

Feb 3, 1998

US-PAT-NO: 5715416

DOCUMENT-IDENTIFIER: US 5715416 A

** See image for Certificate of Correction **

TITLE: User definable pictorial interface for a accessing information in an electronic file system

DATE-ISSUED: February 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Michelle	New York	NY	10025	

US-CL-CURRENT: 715/839; 715/744

ABSTRACT:

A pictorial user interface for accessing information in an electronic file system provides a pictorial image which is linked to a file directory and which identifies the file directory. Objects in the pictorial image are icons linked to file objects and an animated character is overlaid on the pictorial image. User input causes movement of the animated character relative to the pictorial image. Input from the user is preferably through a limited input device such as a gamepad controller, a mouse, or by using a limited number of keys on a normal keyboard. Input signals are mapped according to keycode identical command sets, context arguments and selection arguments. Commands that can be invoked by the user include operating system commands, pictorial object commands, and interface utility commands. Using the pictorial object commands, the user can configure the interface so that different pictures and icons are associated with different directories and files. Commands are executed with a prologue animation and an epilogue animation. The prologue animation provides feedback as to the nature of the command being executed. The epilogue animation provides feedback as to the results of the command. Animations may include actions of the animated character or the behaviour of a selected icon, or both. The interface may be applied as an overlay to virtually any operating system.

11 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms

Documents

HELP AND hotspot AND hypertext

22

Display Format: REV

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